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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/039,072	03/13/1998	ATSUSHI SASAKI	P/1878-109	9140
7590 04/08/2005			EXAMINER	
Steven I Weisburd			GRIER, LAURA A	
DICKSTEIN SH	IAPIRO MORIN & OSH	INSKY LLP		
1177 Avfenue of Americas			ART UNIT	PAPER NUMBER
41st Floor			2644	
New York, NY 10036-2714			DATE MAILED: 04/08/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summers	09/039,072	SASAKI, ATSUSHI				
Office Action Summary	Examiner	Art Unit				
	Laura A Grier	2644				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 22 De	ecember 2004.					
2a) This action is FINAL . 2b) ☑ This						
3) Since this application is in condition for allowan	nce except for formal matters, pro	secution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,4,6,8 and 10</u> is/are rejected.						
7)⊠ Claim(s) <u>2-3, 5, 7, and 9</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner	•.					
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the E	Examiner.				
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
 Certified copies of the priority documents 	have been received.					
Certified copies of the priority documents	have been received in Application	on No				
Copies of the certified copies of the priori		d in this National Stage				
application from the International Bureau	• • •					
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Da	(PTO-413) te				
Paper No(s)/Mail Date		atent Application (PTO-152)				

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 4, 6, 8 and 10 rejected under 35 U.S.C. 102(b) as being anticipated by Op De Beek et al.

Regarding claims 1 and 10, Beek discloses loudspeakers (11), which reads on loudspeaker; a microphone (14) positioned in the listening environment (room) of the speaker to detect the speaker output and the distortions (reflections, which constitutes as echoes) within the listening environment, which reads on a microphone; a frequency analysis unit and equalizing unit (17/9) for correcting the frequency characteristic of the signal, which reads on a processor for generating a difference by comparing, in real time therein, with a direct output from the microphone with an output signal from a sound source (2); and an amplifier (5) – figures 1, 5 and 7, abstract, col. 8, lines 41-64, and col. 13, lines 24-38.

Regarding claims 4, 6 and 8, Beek discloses everything claimed as applied above (see claim 1). Beek further discloses an algorithm (Fourier transformation) for correct the acoustic output signal of the loudspeaker, which reads on the claimed limitations, therein.

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Allowable Subject Matter

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3. Claims 2-3, 5, 7, and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

4. Applicant's arguments filed 12/22/04 have been fully considered but they are not persuasive.

The applicant essentially argues that Beek fails to disclose a processor for comparing in real the output of the microphone with that of the sound source. Beek discloses a speaker receiving an audio input signal, wherein the audio signal is output by the speaker in a listening environment which is subject to acoustic distortions, and a microphone is provided the listening environment to pick up the signal output by the speaker, which includes the speaker's frequency response the acoustic distortions of the listening environment, and the microphone provides an feedback input signal to a frequency analysis unit, and as well an output from the sound source is also provided to the input of the frequency analysis unit, wherein a comparison takes place of the between the audio signal and microphone signal to provide a modified control signal respective the microphone and sound source output to an equalizing unit (in real time), for correcting the acoustic sound field of the loudspeaker. Beek also discloses reflections which are be characterized as reverberation characteristics. And thus the

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claim language fails to specifically claim "echo suppression" as argued by the applicant.

Thus, the Beek Rejection is maintained.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura A Grier whose telephone number is (571) 272-7518. The examiner can normally be reached on Monday - Friday, 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh N Tran can be reached on (571) 272-7564. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Laura A. Grier April 4, 2005